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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/049,851		05/09/2002	Serge Saint-Dizier	0512-1007	2474	
466	7590	01/11/2005		EXAMINER		
YOUNG &				MUSSER, BARBARA J		
745 SOUTH 2ND FLOO		TREET		ART UNIT	PAPER NUMBER	
ARLINGTO	ON, VA	22202		1733		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	// -
Office Author O	10/049,851	SAINT-DIZIER, SERGE	
Office Action Summary	Examiner	Art Unit	•
	Barbara J. Musser	1733	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mai - earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a lepty within the statutory minimum of third will apply and will expire SIX (6) MON to the cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication BANDONED (35 U.S.C. & 133)	ı.
Status			
1) Responsive to communication(s) filed on <u>18</u> 2a) This action is FINAL . 2b) ☐ Th	October 2004. nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under		•	
Disposition of Claims			
4) Claim(s) 20-32 is/are pending in the applicate 4a) Of the above claim(s) is/are withdrest 5) Claim(s) is/are allowed. 6) Claim(s) 20-32 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examir	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to th		• •	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prince application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in A fority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(s	summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 20-28, 30, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moffitt et al.(WO 98/31524) in view of Spengler et al.(U.S. Patent 4,923,539)

Moffitt et al. discloses applying a pre-cut second layer to a pre-cut first larger layer, placing the composite in a mold, closing the mold so that the composite takes the shape of the mold, and injection molding foam behind it so that the second layer remains visible. (Abstract; Figure 4) The reference does not disclose placing the composite in a clamping frame which positions the composite in the mold and trimming off the excess clamping margin after molding. Spengler et al. discloses placing a layer in a mold using a clamping frame, shaping it to the shape of the mold using vacuum, injection molding behind it, and cutting off the clamping margin. (Figure 5; Col. 6, II. 58-Col. 7, II. 15) It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the first layer of Moffitt et al. larger and use a clamping frame with it, the clamping margin of which is then removed after molding since this would allow accurate placement of the composite every time as shown by Spengler et — al. particularly since Moffitt et al. does not show the edges of the mold and discloses

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further processing can occur to the product(Pg. 5, II. 15-16) and since Moffitt et al. shows a clamping/holding element in a different portion of the process(Figure 1), indicating that such elements are known in general in the trim forming arts.

Moffitt et al. does not specifically disclose when the composite is shaped to the shape of the mold. However, when the vacuum is used, one in the art would appreciate that it could be used before, during, or after closure of the mold. Additionally, when a vacuum was not used, the closing of the mold would press the composite against the mold surface, shaping it to a portion of the mold surface.

Regarding claim 21, the secondary layer is secured to the main layer using adhesive.(Pg. 2, II. 8)

Regarding claim 22, one in the art would appreciate that when the main layer is held in a clamping frame and the mold is closed, the injection of resin forces the layers against the mold surface, stretching them. While the reference indicates vacuum may be used to hold the layer in the frame, this is clearly optional as indicated by the use of the word "may".(Pg. 5, II. 5-6) When this vacuum is not present, the layers are stretched by the closing of the mold and the injection of the resin.

Regarding claims 23 and 24, the references cited above do not disclose a foam layer being between the secondary layer and the main layer. Spengler et al. discloses secondary layers made of multiple sheets including one having a foam padding.(Col. 5, II. 35-38) The foam padding is smaller than the size of the secondary layer so that it is completely covered by the secondary layer.(Figure 4) It would have been obvious to one of ordinary skill in the art at the time the invention was made to place a small piece

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of foam between the main layer and the secondary layer since this is a known type of insert in the trim panel of an automobile(Abstract), the same type of product as Moffitt et al.(Abstract), and since this allows the trim panel to have different density foams in different locations.

Regarding claims 24 and 25, Spengler et al. states the secondary layers may be made in any manner known in the art.(Col. 5, II. 41-44) It would have been obvious to one of ordinary skill in the art at the time the invention was made to use adhesive to bond the foam to the secondary layer since this would prevent movement of the layers relative to one another and since Spengler et al. discloses the secondary layers can be made in any manner known in the art.(Col. 5, II. 41-44)

Regarding claim 27, while Spengler et al. only shows holding a portion of the main layer, it would have been obvious to one of ordinary skill in the art at the time the invention was made to clamp around the entire periphery of the main layer since this would insure even stretching of the material during the molding process.

Regarding claim 28, while the references do not disclose the secondary layer being at the edge of the main layer, one in the art would appreciate that this would depend on the desired final location of the secondary layer in the product and it would have been obvious to one of ordinary skill in the art at the time the invention was made to place the secondary layer at the edge of the main layer when it was desired to have the secondary layer at the edge of the main layer in the final product and to not clamp the secondary layer as using that section as a clamping margin would increase the cost since a portion of the secondary layer would be discarded.

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Regarding claim 30, Moffitt et al. discloses forming the composite by placing the main layer in a die, placing the secondary layer in a recess in a punch which cooperates with the die, applying the punch to the main layer, and removing it, leaving the secondary layer attached to the main layer. (Figures 1, 2A; Pg. 2, II. 10-11; Pg. 4, II. 1-13)

Regarding claim 31, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a common reference system for all the parts as this would insure proper alignment of all the parts and layers.

3. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moffitt et al. and Spengler et al. as applied to claim 20 above, and further in view of Savonuzzi(EP 0482270A1).

The references cited above do not disclose a thermal protection sheet between the main layer and the foamed material. Savonuzzi discloses applying a thermoplastic shielding layer to the back of layers which are to be injection molded against to prevent the injectable material from permeating through the main layer.(Abstract) It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply a thermal protection layer to the back of the main layer to prevent the injected resin from permeating through the main layer damaging the product and to prevent heat damage to the main layer.(Abstract)

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Response to Arguments

4. Applicant's arguments filed 10/18/04 have been fully considered but they are not persuasive.

Regarding applicant's arguments with regards to Barber et al., those arguments are most as the reference is no longer part of the rejection.

Regarding applicant's argument that Moffitt et al. has vacuum ports and therefore a clamping frame would not have been needed, Moffitt et al. indicates the vacuum is only exemplary, as indicated by the use of the word "may." Additionally, Spengler et al. shows it is known to use vacuum in combination with a clamping frame. The use of such frames to hold articles in place in molds when injection molding against a clamped film is well-known and conventional in the molding fields, so well known that they are often not shown. Such frames allow accurate placement of the trim relative to the mold and can be used to index the trim from one location to another, particularly considering Moffitt et al. appears to show part of a clamping device which holds the trim before the secondary material is attached to it.(Figure 1)

Regarding applicant's argument that Moffitt et al. does not show step 5 of the process, Moffitt et al. does not disclose when the vacuum is used to pull the composite against the mold. Additionally, when the vacuum is not used, the closing of the mold presses the composite against the mold surface, forming a portion of it to the shape of the mold.

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Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara J. Musser whose telephone number is (571) 272-1222. The examiner can normally be reached on Monday-Thursday; alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on (571)-272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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BJM

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